

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P324630

Luminaire Tested: **GLEON-SA6A-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16417 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

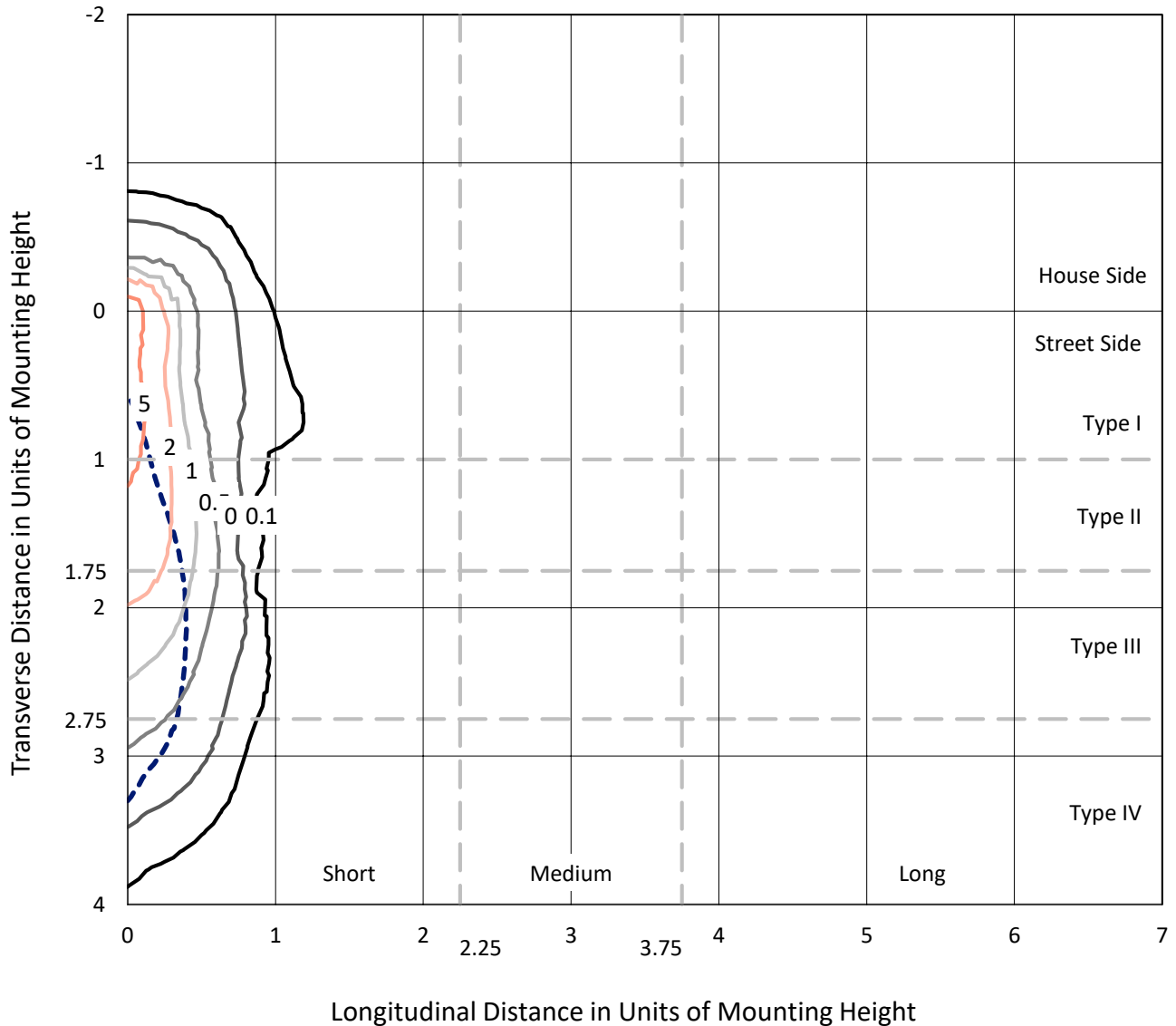




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Iso-Footcandle Lines of Horizontal Illumination

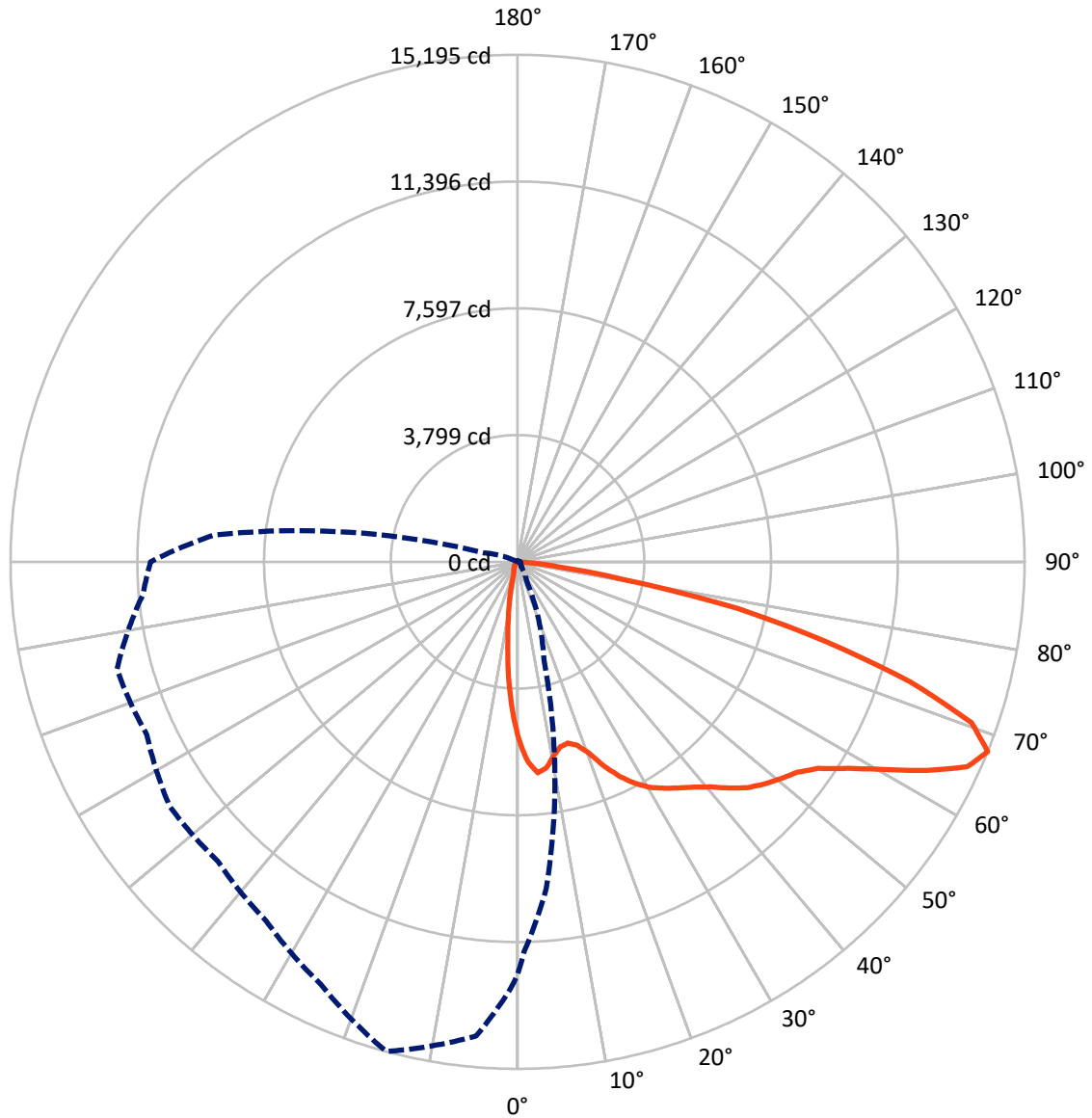
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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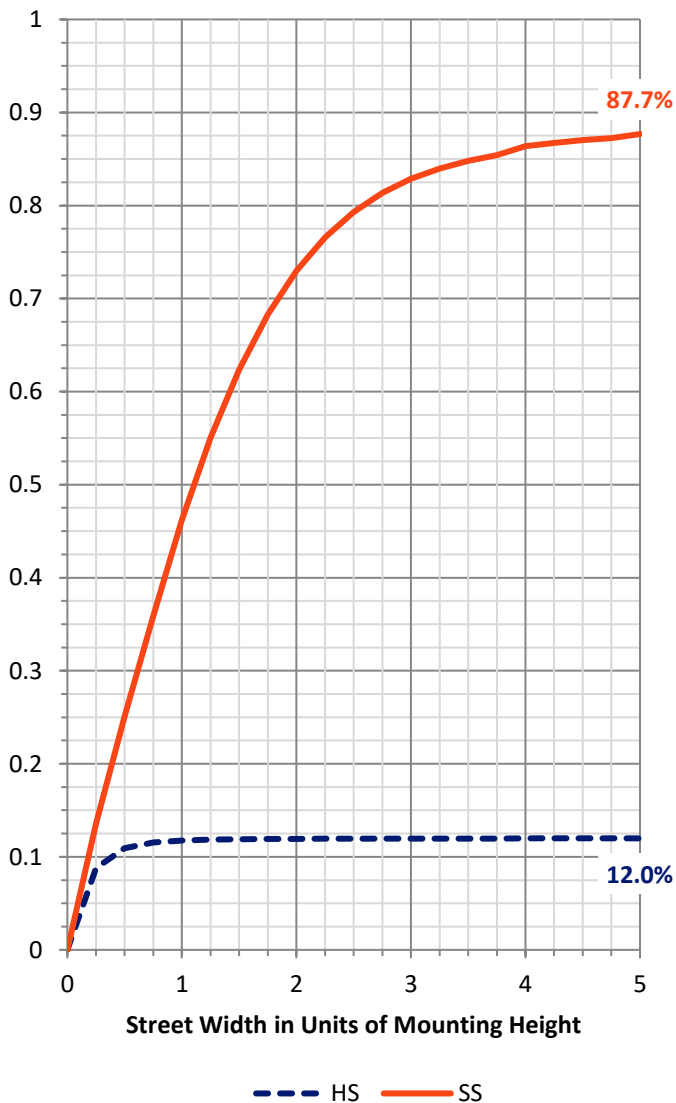
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1987.0	0.0	1987.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	14430.0	0.0	14430.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	16417.0	0.0	16417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.4	2.5
10°-20°	817.0	5.0
20°-30°	1160.1	7.1
30°-40°	1713.5	10.4
40°-50°	2471.3	15.1
50°-60°	3469.2	21.1
60°-70°	4044.1	24.6
70°-80°	2067.4	12.6
80°-90°	264.0	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16417.0	100.0
0°-180°	16417.0	100.0

Coefficient of Utilization

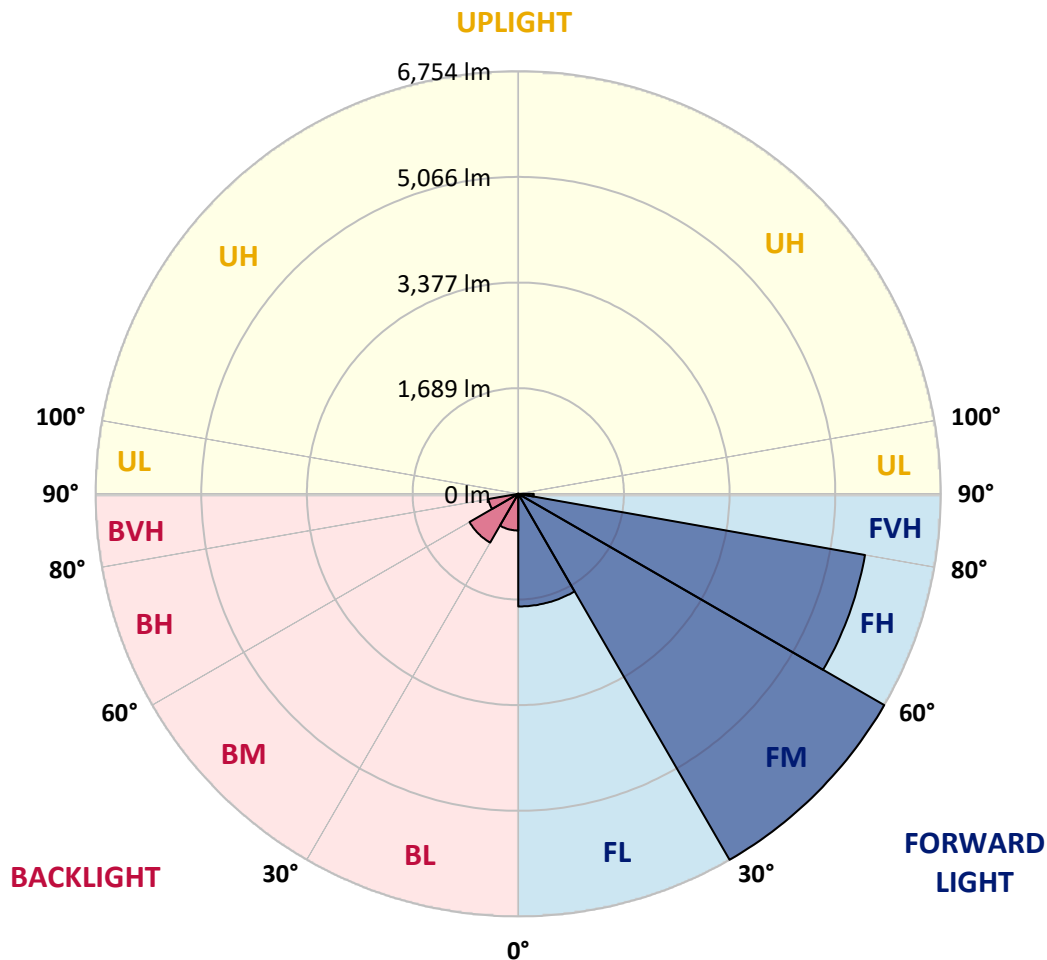


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1800.6	11.0			
FM (30°-60°)	6754.2	41.1			
FH (60°-80°)	5627.2	34.3			G3/7500
FVH (80°-90°)	248.0	1.5			G3/500
BL (0°-30°)	586.9	3.6	B2/1000		
BM (30°-60°)	899.8	5.5	B1/1000		
BH (60°-80°)	484.3	2.9	B1/500		G1/500
BVH (80°-90°)	16.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8
2.5°	5855.7	5810.6	5760.8	5598.2	5447.4	5274.7	5133.9	5035.9	4913.0	4753.6	4713.2
5°	5813.7	5765.5	5609.1	5247.5	4930.9	4622.9	4325.8	4151.6	3935.4	3716.1	3661.6
7.5°	5391.4	5340.8	5115.3	4619.8	4193.6	3748.8	3363.0	3124.2	2880.0	2679.3	2572.8
10°	4951.9	4896.7	4643.2	4042.0	3517.0	3114.9	2831.8	2603.9	2372.9	2158.3	1987.2
12.5°	4649.4	4577.1	4301.7	3620.4	3163.1	2890.1	2625.7	2352.7	2040.0	1809.8	1621.6
15°	4522.6	4440.2	4149.3	3457.9	3037.9	2717.5	2372.9	2037.7	1671.4	1407.7	1235.1
17.5°	4620.6	4513.3	4201.4	3447.0	2880.8	2444.5	2008.9	1615.4	1218.0	951.2	828.3
20°	4953.5	4812.7	4416.8	3443.9	2690.2	2120.1	1567.9	1123.1	802.6	645.5	581.0
22.5°	5477.7	5291.8	4726.4	3468.8	2493.5	1779.5	1132.4	763.0	602.8	521.1	483.0
25°	6110.8	5895.3	5172.0	3556.6	2320.8	1448.2	822.9	602.8	508.6	448.8	416.9
27.5°	6712.8	6537.8	5735.1	3683.4	2187.0	1180.6	668.1	511.0	434.8	395.1	369.4
30°	7314.0	7093.9	6313.0	3834.3	2026.0	999.4	587.2	465.9	389.7	347.7	331.3
32.5°	7751.1	7568.3	6765.6	3943.2	1854.2	881.2	525.0	426.2	364.0	321.2	297.1
35°	8265.1	8058.3	7153.7	3967.3	1743.7	806.5	472.1	383.4	315.8	277.7	252.0
37.5°	8820.5	8563.0	7601.7	3914.4	1657.4	770.0	432.4	364.0	294.8	255.9	228.7
40°	9434.9	9144.0	8031.8	3838.2	1572.6	757.5	402.1	349.2	278.4	238.8	210.8
42.5°	10082.0	9739.0	8404.4	3758.1	1518.9	714.8	399.0	334.4	266.0	223.2	195.2
45°	10625.6	10278.0	8787.0	3731.6	1480.8	668.1	412.2	324.3	257.4	210.8	183.5
47.5°	11058.8	10729.8	9179.0	3790.8	1459.1	625.3	375.7	337.5	252.8	199.9	173.4
50°	11576.0	11203.5	9731.2	3967.3	1427.2	582.5	339.9	386.5	252.8	192.9	164.9
52.5°	12224.7	11856.0	10347.2	4241.1	1363.4	523.4	305.7	387.3	255.1	183.5	154.0
55°	13040.5	12773.0	11226.8	4541.3	1261.5	436.3	264.4	332.9	245.8	166.4	143.9
57.5°	13822.9	13604.4	12028.7	4746.6	1125.4	340.7	230.2	268.3	224.8	146.2	128.3
59°	14036.8	13798.1	12322.7	4755.9	1023.5	297.1	213.1	221.7	220.1	136.9	119.0
60°	14036.8	13783.3	12407.4	4706.2	949.6	273.0	202.2	197.5	229.4	130.7	113.6
62.5°	13782.5	13426.3	12132.1	4369.4	774.6	232.5	176.5	163.3	206.1	117.4	100.3
65°	13253.6	12734.9	11194.2	3760.4	690.6	213.1	152.4	133.8	143.1	103.4	87.9
67.5°	12371.7	11668.6	9841.6	3037.9	657.2	207.7	131.4	113.6	108.1	88.7	77.0
70°	10818.5	10038.4	8199.8	2388.5	628.4	205.3	110.4	95.7	87.1	74.7	65.3
72.5°	7873.9	7060.4	5821.5	1867.4	611.3	210.0	88.7	80.1	71.6	58.3	50.6
75°	4503.9	3971.2	3272.0	1233.5	521.1	200.7	68.4	66.9	51.3	42.0	35.0
77.5°	2327.0	2256.3	1960.7	473.6	249.7	87.9	45.1	38.9	30.3	25.7	21.0
80°	1004.1	993.2	859.4	136.9	66.1	49.0	25.7	16.3	14.0	10.9	8.6
82.5°	346.9	346.9	305.7	45.9	29.6	24.1	3.1	0.0	0.0	0.0	0.0
85°	70.0	78.6	55.2	0.0	10.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8
2.5°	4664.2	4570.1	4563.8	4504.7	4430.8	4397.4	4378.0	4412.2	4454.2	4458.8	4521.8
5°	3620.4	3521.7	3562.9	3457.9	3478.9	3457.9	3423.7	3429.9	3448.5	3390.2	3462.5
7.5°	2542.5	2467.8	2515.2	2487.2	2524.6	2539.4	2518.4	2487.2	2395.5	2384.6	2447.6
10°	1916.4	1831.6	1781.0	1728.2	1739.8	1763.9	1756.2	1733.6	1675.3	1678.4	1739.0
12.5°	1539.9	1445.1	1344.7	1214.8	1183.0	1200.8	1183.0	1169.7	1113.7	1118.4	1172.1
15°	1168.2	1090.4	985.4	881.2	824.4	829.9	780.1	745.1	710.1	668.1	700.8
17.5°	788.6	741.2	710.1	679.0	611.3	595.8	532.8	465.1	438.7	419.2	433.2
20°	558.4	532.8	520.3	518.8	479.9	460.4	399.0	357.0	343.8	339.9	348.4
22.5°	466.6	448.0	430.1	420.0	400.5	378.0	331.3	310.3	301.0	296.3	302.5
25°	406.0	392.0	373.3	356.2	348.4	324.3	290.9	275.3	269.1	264.4	267.5
27.5°	360.9	348.4	326.7	315.8	309.5	288.5	259.8	247.3	241.9	240.3	239.5
30°	325.1	313.4	293.2	280.8	269.9	251.2	234.1	221.7	216.2	214.7	213.1
32.5°	289.3	280.0	266.8	254.3	242.7	225.5	210.8	200.7	192.1	190.5	189.8
35°	244.2	234.9	227.9	227.1	216.2	199.9	189.0	175.8	168.8	166.4	167.2
37.5°	217.0	204.5	189.0	194.4	191.3	179.7	164.9	151.7	144.7	143.1	143.1
40°	199.9	186.7	168.8	159.4	168.8	166.4	143.1	129.9	122.9	122.1	120.6
42.5°	183.5	170.3	150.1	134.6	139.2	146.2	123.7	111.2	104.2	102.7	100.3
45°	171.9	157.9	135.3	117.4	108.1	122.9	105.8	90.2	86.3	83.2	81.7
47.5°	161.0	147.8	122.1	101.9	86.3	88.7	84.8	73.9	69.2	66.1	65.3
50°	151.7	137.7	110.4	87.1	71.6	65.3	68.4	58.3	54.4	51.3	49.8
52.5°	140.8	127.6	98.0	75.4	59.9	51.3	52.1	45.9	42.0	39.7	38.9
55°	132.2	119.0	87.9	66.1	52.9	42.0	37.3	35.8	33.4	31.9	31.1
57.5°	120.6	108.1	77.8	56.0	45.1	34.2	28.8	28.8	28.0	26.4	25.7
59°	113.6	102.7	71.6	50.6	41.2	29.6	25.7	26.4	25.7	24.1	23.3
60°	108.1	98.0	66.9	46.7	38.9	27.2	23.3	24.9	24.1	22.6	21.8
62.5°	95.7	88.7	57.6	38.9	34.2	21.8	19.4	21.0	21.0	20.2	19.4
65°	84.0	76.2	49.0	32.7	31.9	18.7	15.6	18.7	19.4	17.9	16.3
67.5°	73.1	65.3	42.8	26.4	29.6	14.8	11.7	15.6	21.0	16.3	14.8
70°	62.2	54.4	33.4	21.0	31.1	10.1	9.3	14.0	24.9	17.9	14.0
72.5°	48.2	42.0	23.3	15.6	33.4	7.0	7.0	11.7	28.0	19.4	13.2
75°	33.4	27.2	14.0	9.3	27.2	4.7	4.7	10.9	26.4	17.9	12.4
77.5°	19.4	14.8	4.7	0.8	14.0	0.0	0.8	7.8	18.7	10.9	5.4
80°	7.0	3.1	0.0	0.0	8.6	0.0	0.0	0.0	1.6	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8
2.5°	4538.2	4643.2	4737.3	4879.6	5048.4	5242.8	5410.0	5589.7	5758.5	5828.5	5876.7
5°	3477.3	3607.2	3758.9	3968.1	4246.5	4589.5	4910.7	5273.9	5664.4	5859.6	6043.1
7.5°	2458.5	2590.7	2778.9	3001.3	3338.1	3746.4	4166.4	4668.1	5196.9	5505.7	5809.8
10°	1767.8	1930.4	2106.1	2410.2	2752.5	3139.8	3572.2	4132.2	4721.7	5063.9	5430.2
12.5°	1203.2	1388.3	1654.3	1994.9	2397.0	2776.6	3152.2	3686.5	4371.0	4710.1	5102.8
15°	721.8	824.4	1106.0	1500.3	1993.4	2466.2	2877.7	3413.5	4143.1	4558.4	4966.7
17.5°	444.9	492.3	645.5	969.1	1487.1	2085.1	2649.0	3321.0	4175.7	4681.3	5118.4
20°	354.7	373.3	422.3	572.4	985.4	1665.2	2391.6	3302.3	4442.5	5064.7	5533.7
22.5°	308.0	325.9	358.5	416.1	619.9	1246.7	2147.4	3319.4	4825.2	5639.5	6187.0
25°	271.4	287.0	318.1	365.5	454.2	878.1	1886.0	3395.7	5323.7	6352.7	6934.4
27.5°	242.7	255.9	284.7	328.2	389.7	612.9	1589.7	3488.2	5914.8	7082.2	7656.2
30°	216.2	227.9	253.5	294.0	338.3	471.3	1264.6	3551.2	6506.7	7656.2	8171.8
32.5°	193.7	202.2	225.5	259.8	294.0	375.7	961.3	3541.1	6946.1	8133.7	8542.8
35°	170.3	178.9	199.1	228.7	255.9	310.3	756.0	3352.1	7328.7	8629.1	8967.5
37.5°	144.7	155.5	175.0	201.4	220.1	273.0	611.3	3124.2	7716.8	9195.3	9441.1
40°	122.9	133.8	150.9	179.7	191.3	259.0	469.8	2846.6	8153.2	9828.4	9960.6
42.5°	101.9	112.0	129.9	154.8	180.4	223.2	347.7	2529.2	8572.4	10369.7	10434.3
45°	82.4	92.6	111.2	136.1	192.9	185.1	269.1	2189.4	8910.7	10820.1	10841.1
47.5°	65.3	74.7	94.1	128.3	179.7	147.8	192.1	1922.6	9194.6	11171.6	11116.4
50°	50.6	58.3	78.6	147.0	157.1	122.1	145.4	1833.9	9448.9	11389.4	11246.3
52.5°	39.7	46.7	64.6	137.7	122.1	101.1	122.1	1917.2	9797.3	11569.8	11319.4
55°	31.9	38.9	50.6	78.6	83.2	85.6	104.2	1994.9	10398.5	11992.9	11751.0
57.5°	26.4	33.4	41.2	55.2	63.0	72.3	92.6	2003.5	11107.0	12696.0	12467.3
59°	24.1	30.3	37.3	49.0	55.2	66.1	87.1	1956.8	11356.7	12951.9	12837.5
60°	22.6	28.8	35.0	45.1	51.3	62.2	84.0	1912.5	11367.6	12942.5	12995.4
62.5°	19.4	25.7	31.1	38.1	43.6	52.9	75.4	1748.4	10907.2	12518.7	12900.5
65°	17.1	22.6	28.0	32.7	37.3	47.4	68.4	1448.9	10120.9	11835.0	12251.1
67.5°	15.6	19.4	25.7	28.8	33.4	42.0	60.7	1032.9	9138.6	10998.9	11268.8
70°	14.0	18.7	23.3	26.4	30.3	36.6	52.1	593.4	7716.8	9774.8	9966.9
72.5°	13.2	17.9	21.0	24.9	27.2	32.7	47.4	279.2	5650.4	7830.4	8332.0
75°	11.7	16.3	19.4	23.3	25.7	29.6	40.4	133.8	3758.1	5666.7	6236.8
77.5°	7.0	13.2	17.9	21.0	22.6	25.7	33.4	77.0	2398.6	3922.2	4619.8
80°	0.0	4.7	13.2	17.9	19.4	21.8	25.7	60.7	1283.3	2240.7	2689.5
82.5°	0.0	0.0	9.3	14.0	13.2	14.8	19.4	38.1	578.6	1464.5	1650.4
85°	0.0	0.0	3.1	10.9	9.3	7.0	13.2	13.2	126.8	741.2	924.7
87.5°	0.0	0.0	0.0	0.8	4.7	3.1	5.4	1.6	0.8	55.2	224.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324630

CATALOG NUMBER: GLEON-SA6A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8	5347.8
2.5°	6045.4	6103.0	6200.2	6246.1	6223.6	6127.9	6013.6	5896.9	5828.5	5855.7
5°	6417.2	6713.5	6884.6	6941.4	6846.5	6631.9	6351.1	5980.9	5849.5	5813.7
7.5°	6417.2	6974.9	7328.0	7390.2	7178.6	6757.9	6231.3	5653.5	5461.4	5391.4
10°	6191.7	6950.7	7443.1	7541.8	7246.3	6617.1	5911.7	5252.1	5024.3	4951.9
12.5°	5937.3	6754.8	7273.5	7409.6	7167.0	6477.1	5690.0	4980.7	4712.4	4649.4
15°	5781.0	6513.7	6943.0	7041.7	6939.1	6395.4	5637.1	4899.0	4583.3	4522.6
17.5°	5837.0	6327.0	6481.8	6539.3	6608.5	6366.7	5781.0	5077.9	4678.2	4620.6
20°	6047.8	6130.2	6050.1	6122.4	6309.1	6394.7	6124.0	5510.4	5030.5	4953.5
22.5°	6405.5	6028.3	5803.6	5832.3	6059.4	6487.2	6648.2	6127.9	5574.1	5477.7
25°	6822.4	6110.8	5666.7	5641.0	5874.3	6609.3	7127.3	6799.9	6217.3	6110.8
27.5°	7346.6	6295.9	5638.7	5613.0	5809.8	6723.6	7525.5	7464.1	6894.8	6712.8
30°	7751.1	6477.9	5721.9	5662.8	5874.3	6803.0	7845.2	8027.9	7434.5	7314.0
32.5°	8041.2	6692.5	5857.2	5771.7	6056.3	6939.9	8091.7	8544.4	7933.8	7751.1
35°	8262.0	6925.9	6075.8	5935.0	6306.8	7147.5	8322.7	9094.2	8465.0	8265.1
37.5°	8468.9	7253.3	6417.2	6249.2	6699.5	7482.0	8566.9	9718.0	9059.2	8820.5
40°	8757.5	7624.3	6943.7	6794.4	7359.8	7937.7	8871.8	10368.2	9735.1	9434.9
42.5°	9046.0	8022.5	7482.7	7523.2	8183.5	8491.5	9265.3	11055.7	10402.4	10082.0
45°	9309.7	8433.1	8250.4	8437.0	8948.0	9098.9	9656.5	11453.1	10935.2	10625.6
47.5°	9544.5	8946.5	9013.3	9510.3	9817.5	9648.8	9949.0	11796.1	11331.8	11058.8
50°	9817.5	9610.7	10019.0	10722.1	10818.5	10146.5	10215.0	12202.1	11795.4	11576.0
52.5°	10116.2	10310.6	11132.7	11752.6	11721.5	10687.1	10482.5	12657.1	12430.8	12224.7
55°	10455.3	10876.1	12113.5	12717.0	12690.5	11290.6	10925.8	13219.4	13227.2	13040.5
57.5°	10958.5	11362.9	12779.2	13497.1	13541.4	11987.5	11677.1	13849.4	13947.4	13822.9
59°	11319.4	11678.7	13042.9	13822.9	14003.4	12526.4	12226.2	14214.9	14150.4	14036.8
60°	11586.9	11879.3	13173.5	13993.3	14271.7	12892.0	12631.4	14429.6	14174.5	14036.8
62.5°	12248.8	12316.4	13409.2	14186.2	14580.5	13704.0	13771.6	14795.1	14007.3	13782.5
65°	12557.5	12592.5	13406.1	13840.8	14281.8	14336.3	14806.0	14806.0	13599.0	13253.6
67.5°	12428.4	12259.7	12741.1	12696.0	13136.2	13960.6	15194.9	14263.2	12818.1	12371.7
70°	11378.5	10729.1	10515.2	10534.6	10871.4	12143.0	14424.9	12665.7	11340.4	10818.5
72.5°	9467.5	7909.7	7381.6	7984.4	8072.3	9332.2	12293.1	9538.3	8363.1	7873.9
75°	7614.9	5575.7	4717.1	5353.3	5502.6	6829.4	9509.5	5940.5	4885.0	4503.9
77.5°	5470.7	4002.3	3384.8	3340.4	3533.3	4331.3	6747.8	2989.7	2493.5	2327.0
80°	3107.9	2634.2	2836.5	2676.2	2773.5	2708.1	3205.9	1311.3	1074.1	1004.1
82.5°	1875.9	1557.1	1686.2	1403.8	1776.4	1546.9	1235.1	420.0	364.8	346.9
85°	1220.3	850.9	443.3	297.1	612.1	988.5	276.1	114.3	87.9	70.0
87.5°	420.8	217.0	21.8	9.3	65.3	184.3	10.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics

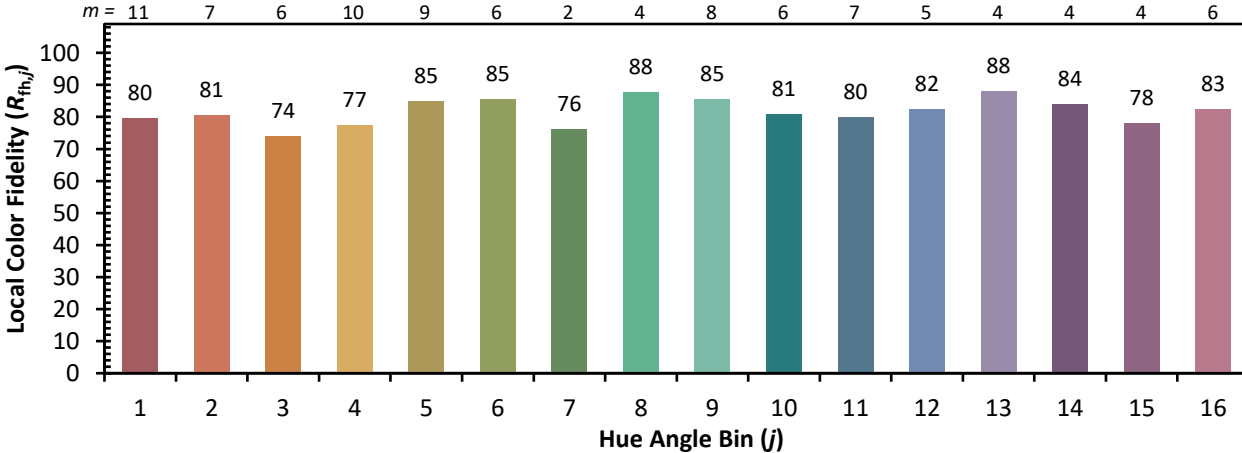


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)